FIG. 1

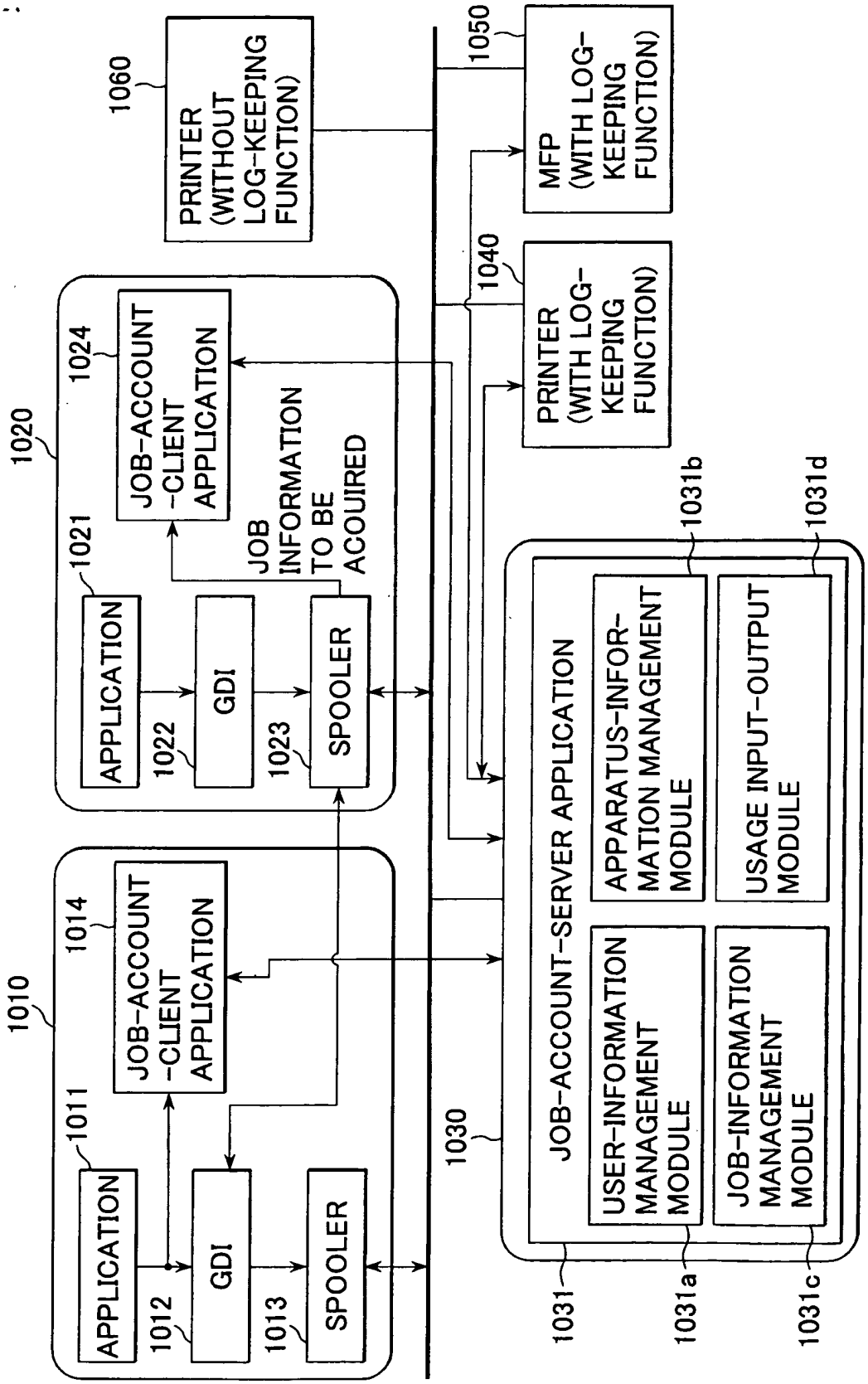

1060
PRINTER (WITHOUT LOG-KEEPING FUNCTION)
1050
MFP (WITH LOG-KEEPING FUNCTION)
1040
PRINTER (WITH LOG-KEEPING FUNCTION)
1020
1024
JOB-ACCOUNT -CLIENT APPLICATION
JOB INFORMATION TO BE ACQUIRED
1021
APPLICATION
1022
GDI
1023
SPOOLER
1010
1014
JOB-ACCOUNT -CLIENT APPLICATION
1011
APPLICATION
1012
GDI
1013
SPOOLER
1030
JOB-ACCOUNT-SERVER APPLICATION
1031b
APPARATUS-INFORMATION MANAGEMENT MODULE
1031d
USAGE INPUT-OUTPUT MODULE
USER-INFORMATION MANAGEMENT MODULE
JOB-INFORMATION MANAGEMENT MODULE
1031
1031a
1031c

FIG. 2

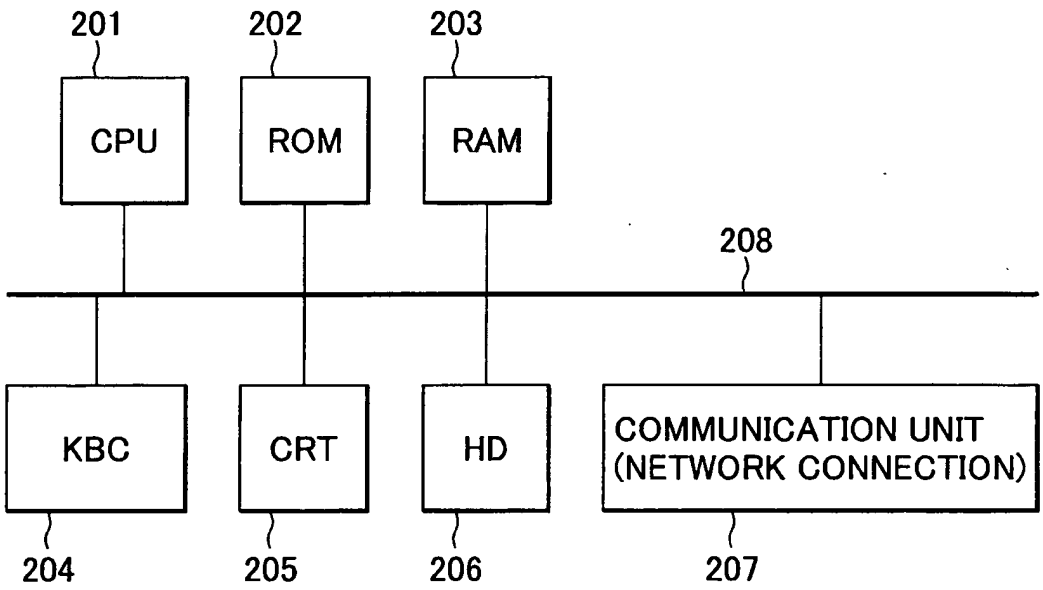

201
202
203
CPU
ROM
RAM
208
KBC
CRT
HD
COMMUNICATION UNIT
(NETWORK CONNECTION)
204
205
206
207

FIG. 3

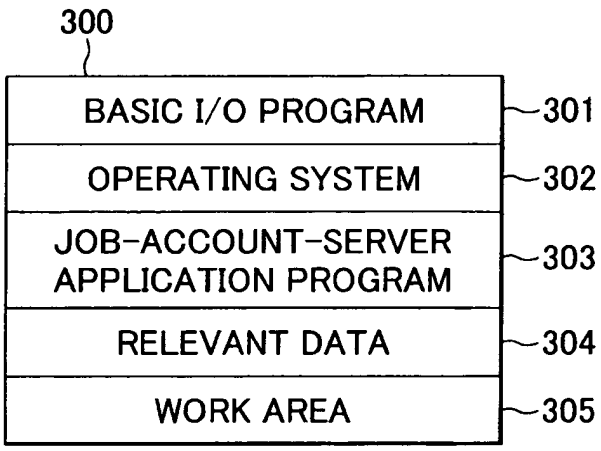

300
BASIC I/O PROGRAM
301
OPERATING SYSTEM
302
JOB-ACCOUNT-SERVER APPLICATION PROGRAM
303
RELEVANT DATA
304
WORK AREA
305

FIG. 4

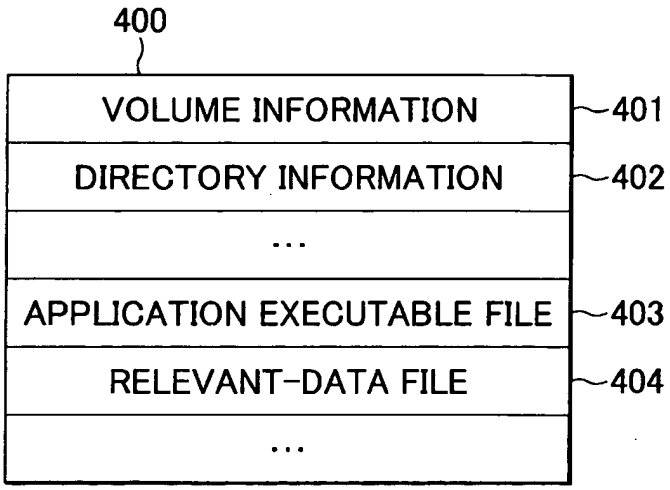

400
VOLUME INFORMATION
401
DIRECTORY INFORMATION
402
...
APPLICATION EXECUTABLE FILE
403
RELEVANT-DATA FILE
404
...

FIG. 5

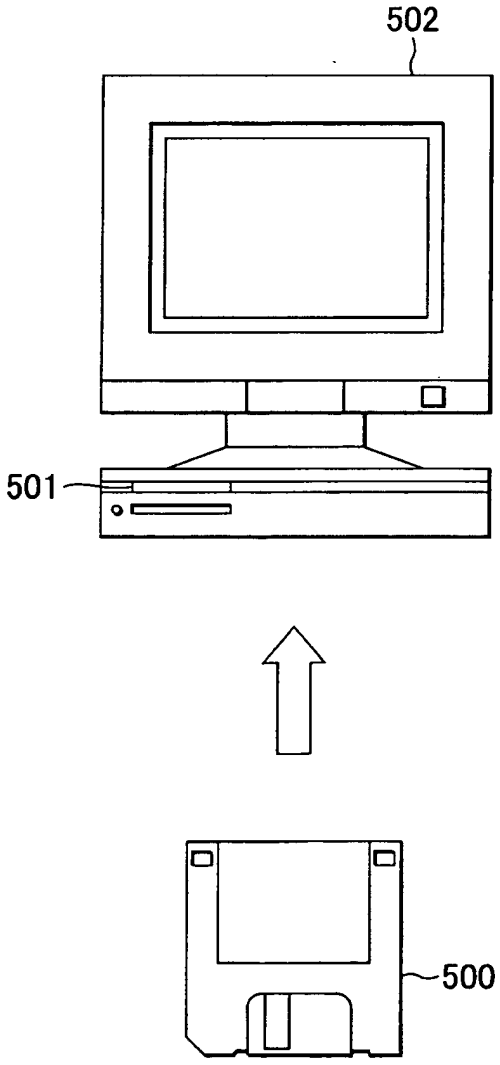


FIG. 6

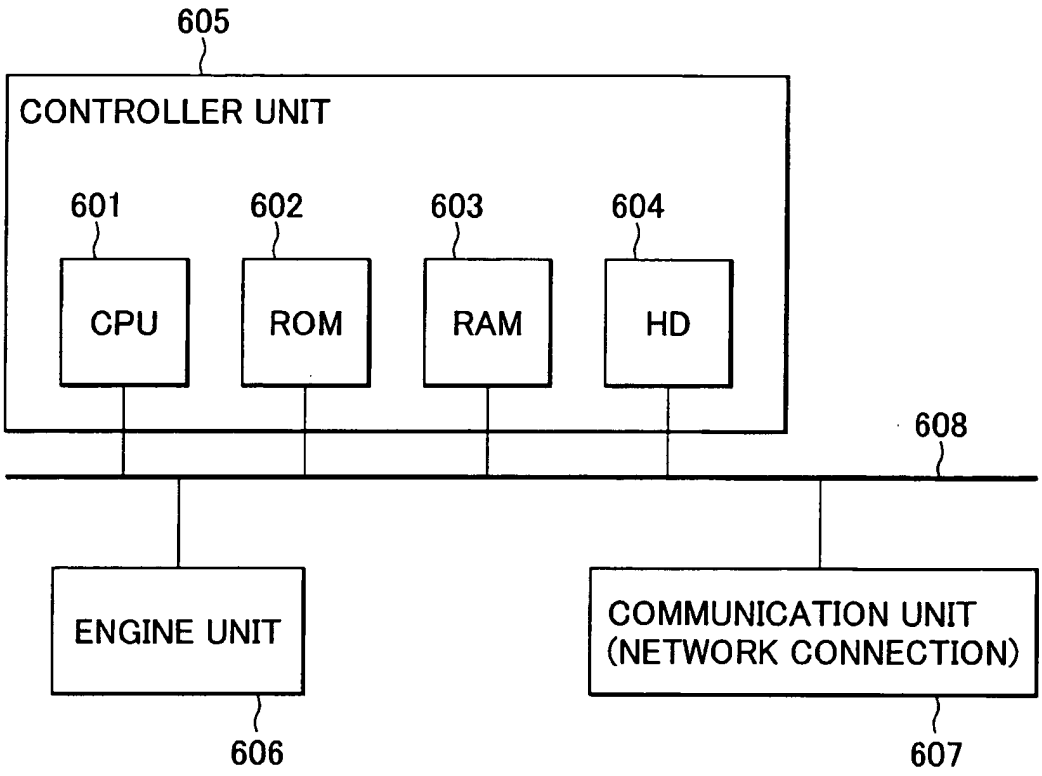

605
CONTROLLER UNIT
601
602
603
604
CPU
ROM
RAM
HD
608
ENGINE UNIT
COMMUNICATION UNIT
(NETWORK CONNECTION)
606
607

FIG. 7

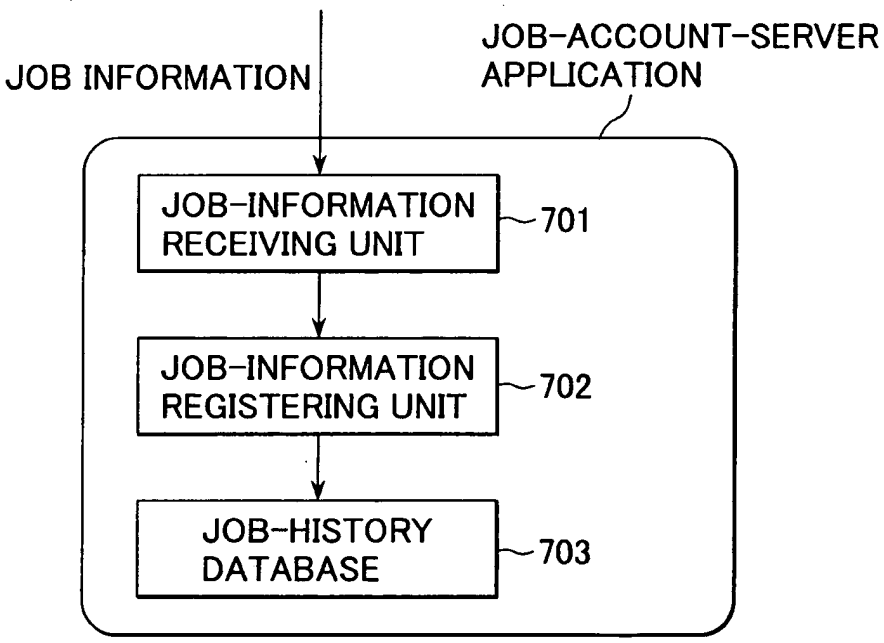

JOB INFORMATION
JOB-ACCOUNT-SERVER APPLICATION
JOB-INFORMATION RECEIVING UNIT
701
JOB-INFORMATION REGISTERING UNIT
702
JOB-HISTORY DATABASE
703

FIG. 8

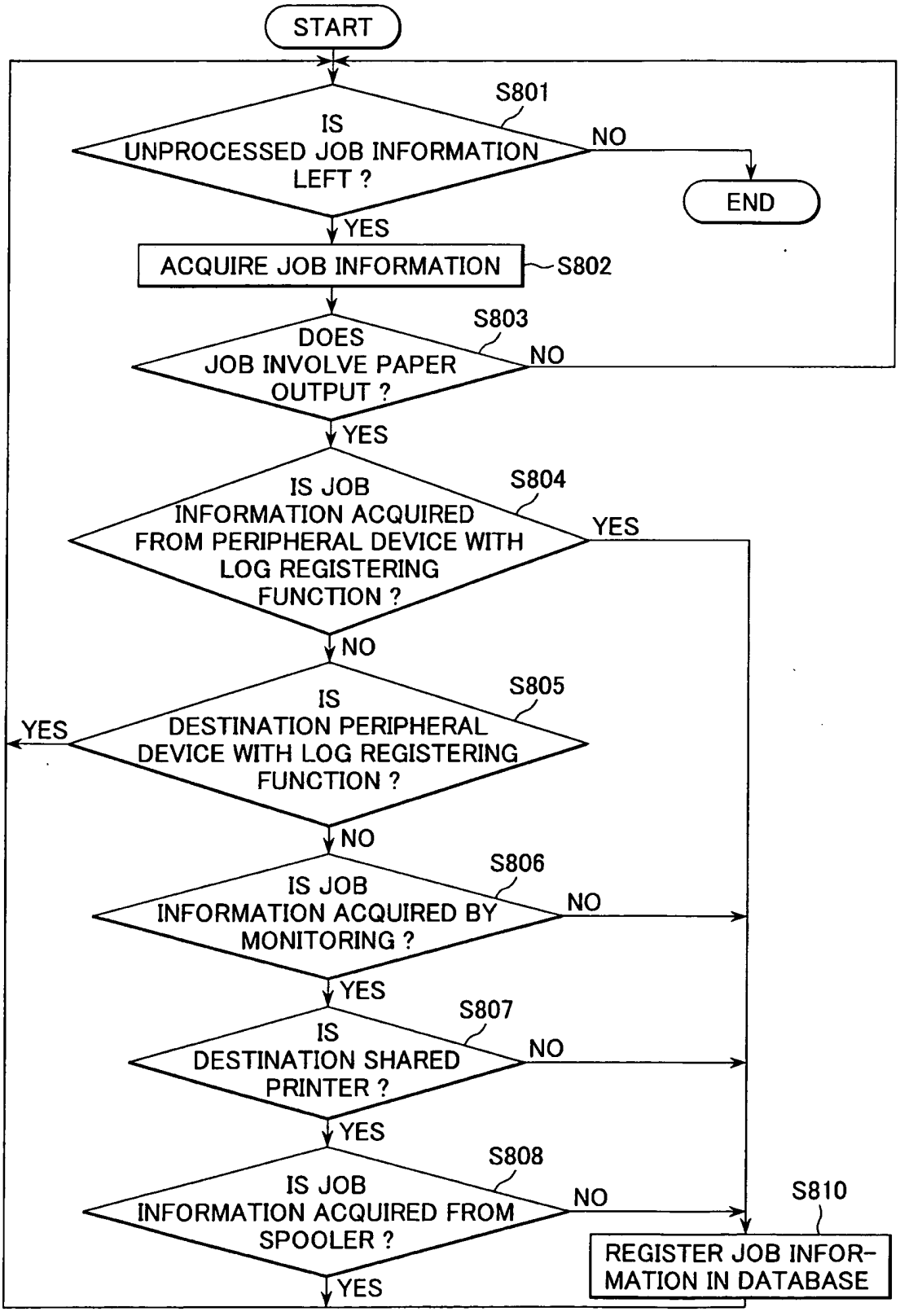

START
S801
IS UNPROCESSED JOB INFORMATION LEFT ?
NO
END
YES
ACQUIRE JOB INFORMATION
S802
S803
DOES JOB INVOLVE PAPER OUTPUT ?
NO
YES
S804
IS JOB INFORMATION ACQUIRED FROM PERIPHERAL DEVICE WITH LOG REGISTERING FUNCTION ?
YES
NO
S805
IS DESTINATION PERIPHERAL DEVICE WITH LOG REGISTERING FUNCTION ?
YES
NO
S806
IS JOB INFORMATION ACQUIRED BY MONITORING ?
NO
YES
S807
IS DESTINATION SHARED PRINTER ?
NO
YES
S808
IS JOB INFORMATION ACQUIRED FROM SPOOLER ?
NO
YES
S810
REGISTER JOB INFORMATION IN DATABASE

FIG. 9

901	OUTPUT DEVICE	MFP-1
902	METHOD FOR ACQUIRING JOB INFORMATION	USING JOB-HISTORY -KEEPING FUNCTION
903	TIME	1999/11/01 pm5 GMT
904	KIND OF SHEET	OHP
905	THE NUMBER OF PAGES	7
906	THE NUMBER OF COPIES	4
907	IS JOB SUPPLIED TO SHARED PRINTER	NO
908	THE NAME OF USER WHO HAS ISSUED JOB	JOHN SMITH
909	MODE	COLOR

FIG. 10

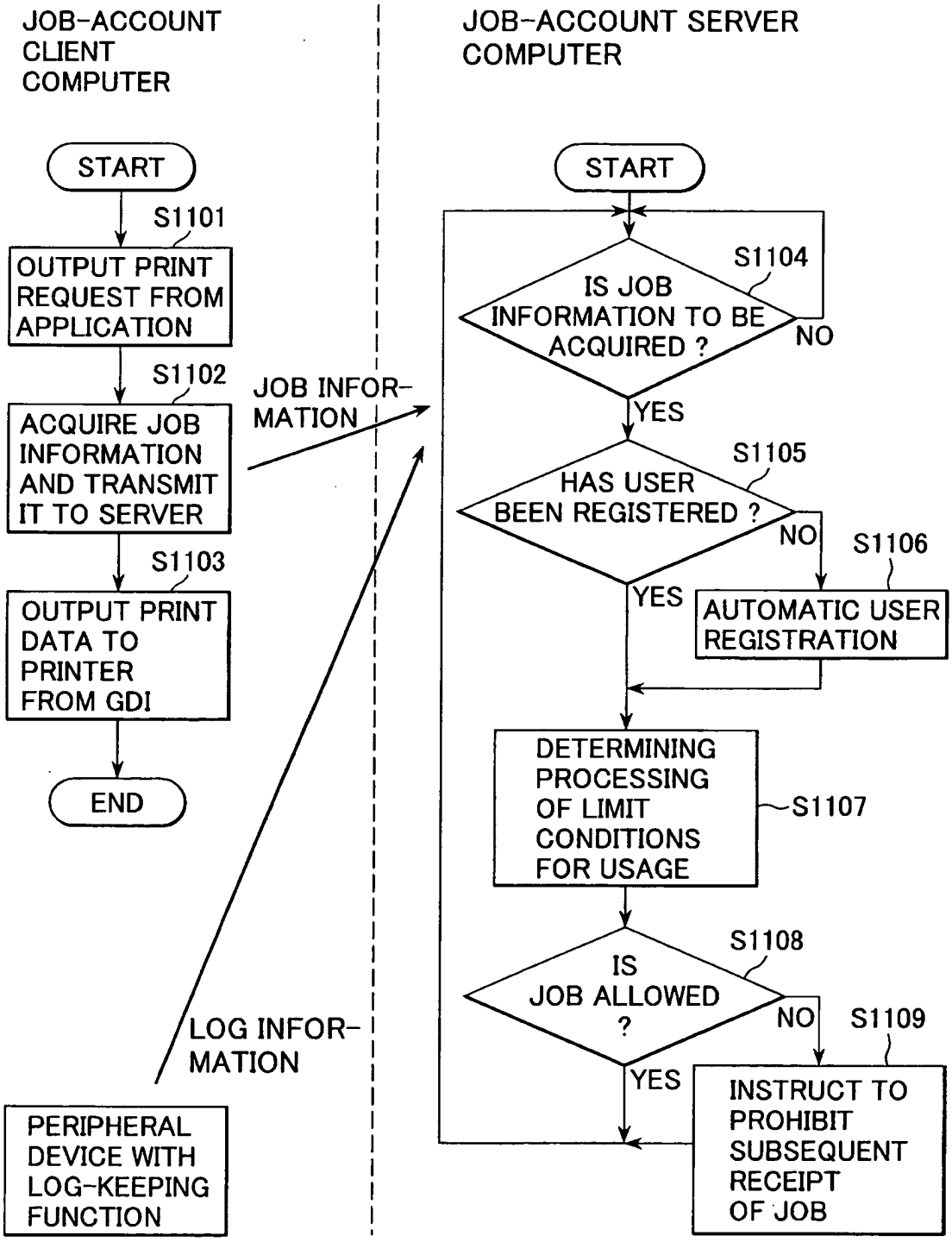

JOB-ACCOUNT CLIENT COMPUTER
JOB-ACCOUNT SERVER COMPUTER
START
S1101
OUTPUT PRINT REQUEST FROM APPLICATION
S1102
ACQUIRE JOB INFORMATION AND TRANSMIT IT TO SERVER
JOB INFOR-MATION
S1103
OUTPUT PRINT DATA TO PRINTER FROM GDI
END
LOG INFOR-MATION
PERIPHERAL DEVICE WITH LOG-KEEPING FUNCTION
START
S1104
IS JOB INFORMATION TO BE ACQUIRED ?
NO
YES
S1105
HAS USER BEEN REGISTERED ?
NO
S1106
AUTOMATIC USER REGISTRATION
YES
DETERMINING PROCESSING OF LIMIT CONDITIONS FOR USAGE
S1107
S1108
IS JOB ALLOWED ?
NO
S1109
YES
INSTRUCT TO PROHIBIT SUBSEQUENT RECEIPT OF JOB

FIG. 11

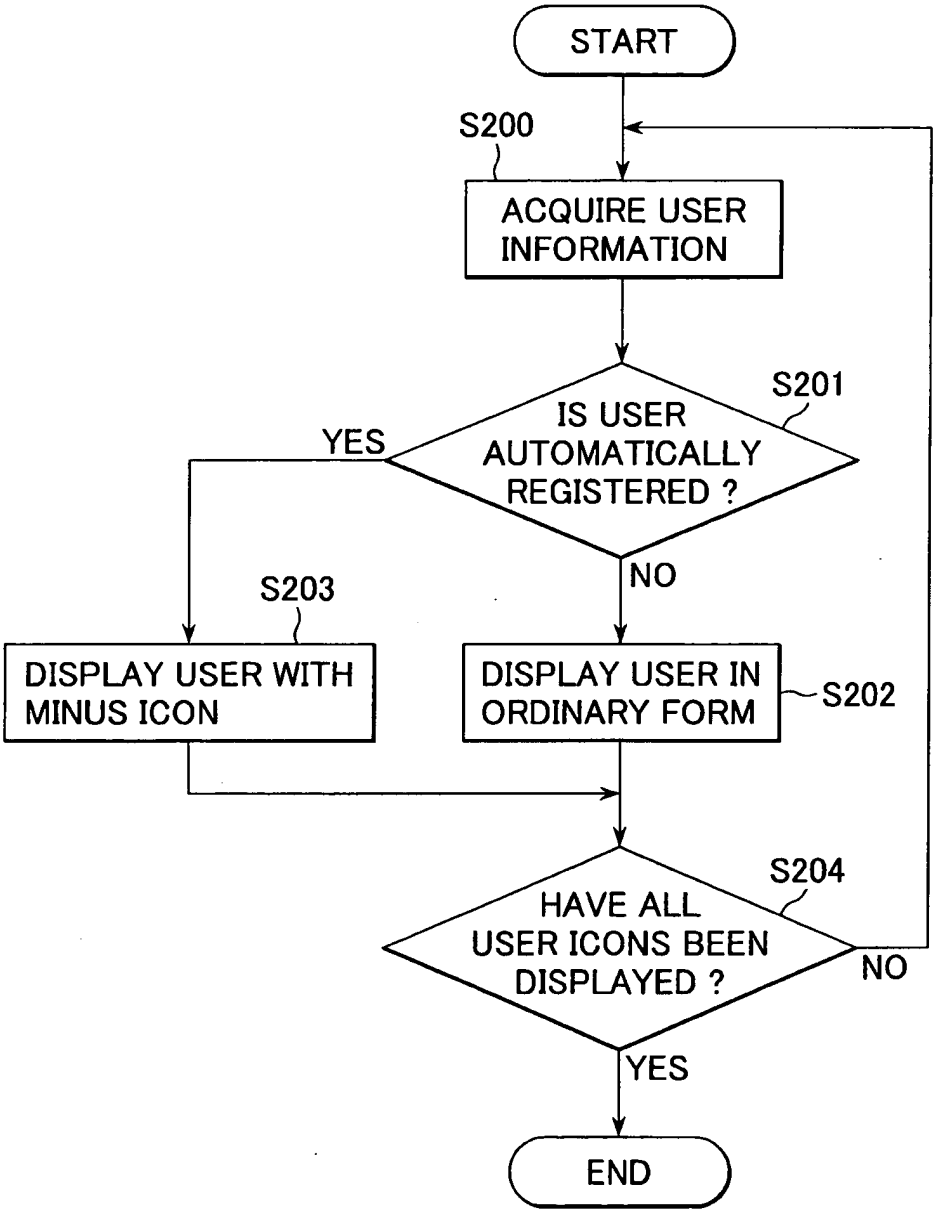

START
S200
ACQUIRE USER INFORMATION
S201
IS USER AUTOMATICALLY REGISTERED ?
YES
NO
S203
DISPLAY USER WITH MINUS ICON
DISPLAY USER IN ORDINARY FORM
S202
S204
HAVE ALL USER ICONS BEEN DISPLAYED ?
NO
YES
END

FIG. 12

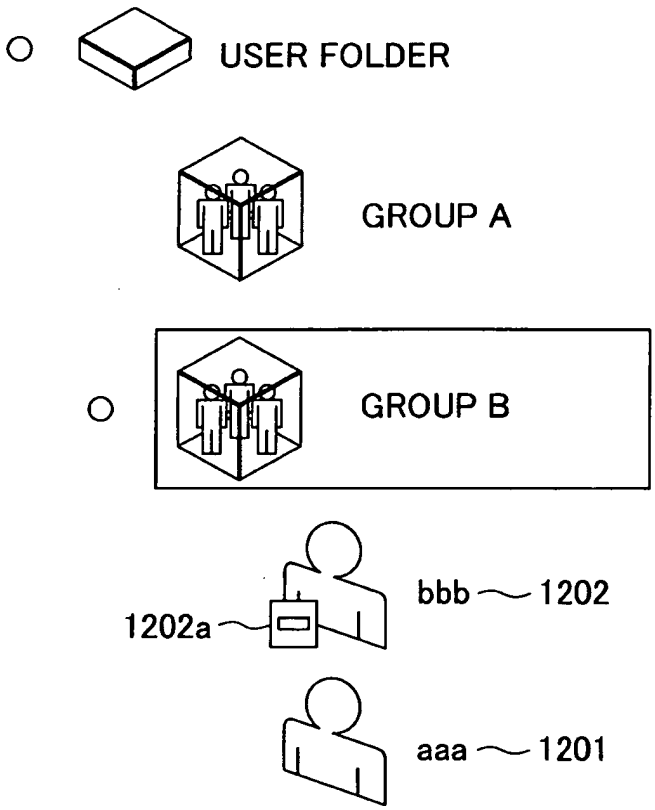


FIG. 13

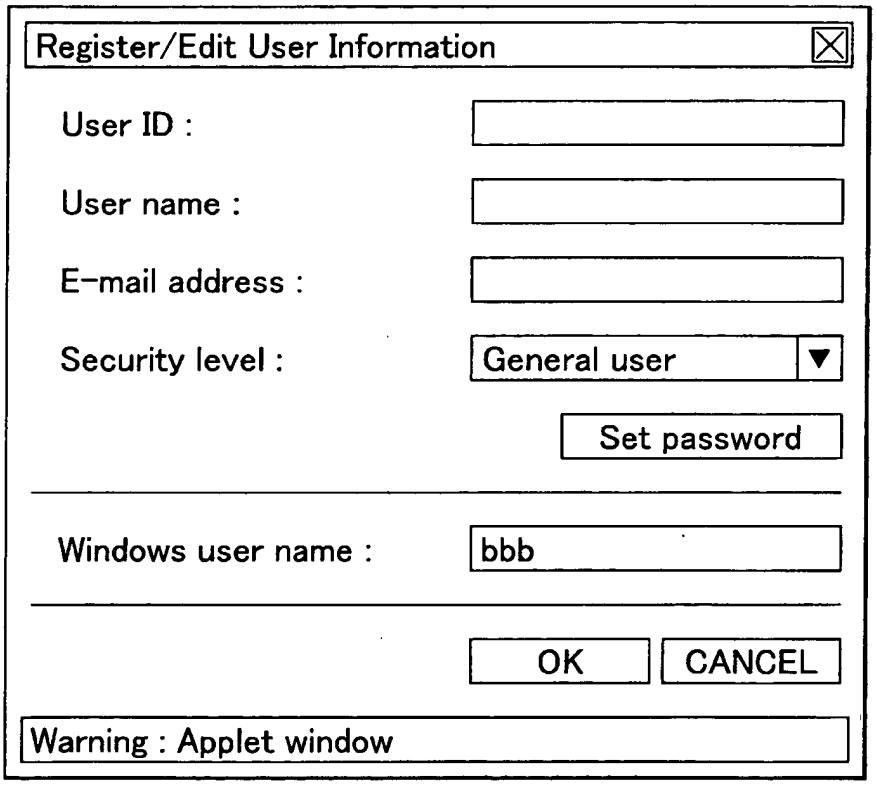

Register/Edit User Information
User ID :
User name :
E-mail address :
Security level :
General user
Set password
Windows user name :
bbb
OK
CANCEL
Warning : Applet window

FIG. 14

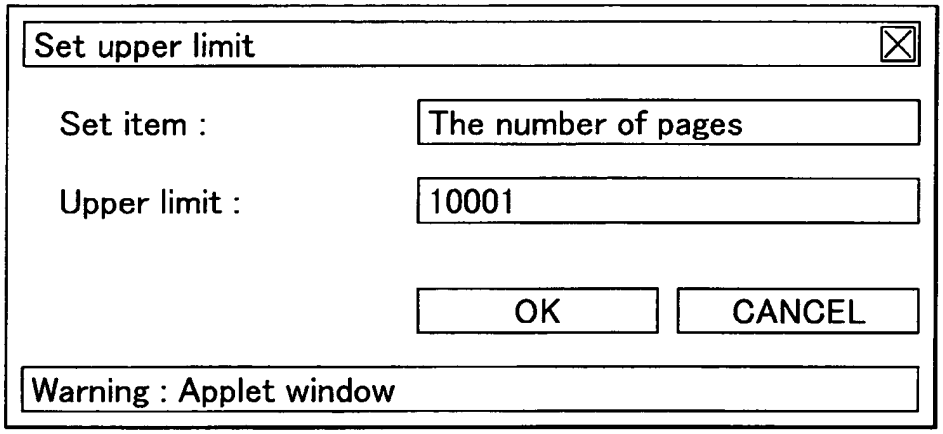

Set upper limit
Set item :
The number of pages
Upper limit :
10001
OK
CANCEL
Warning : Applet window

FIG. 15

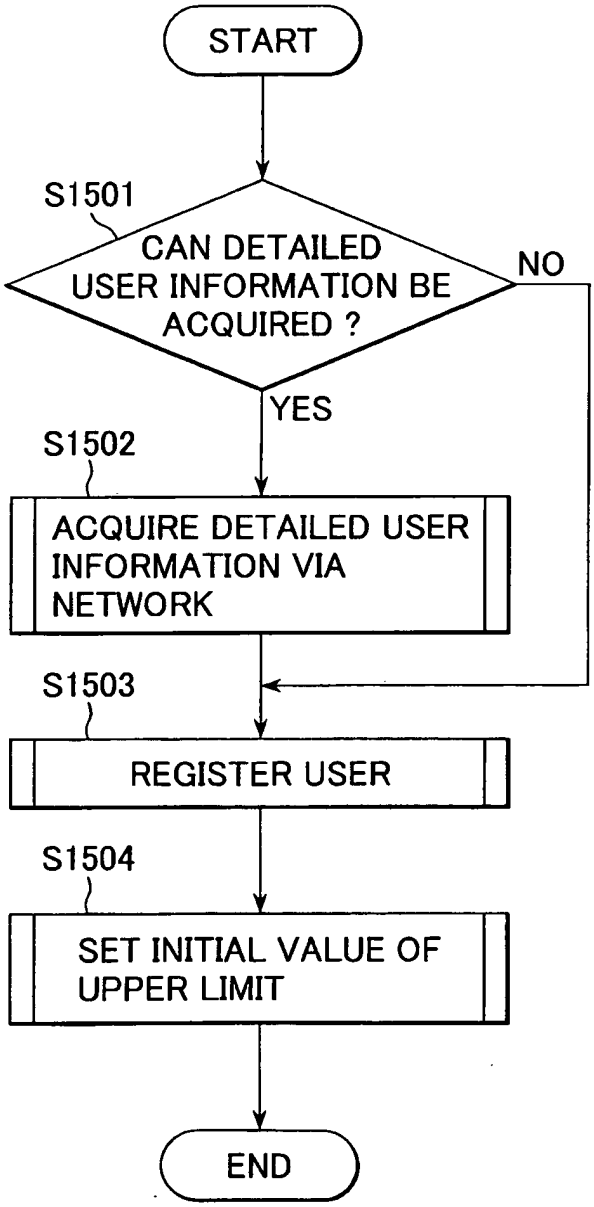

START
S1501
CAN DETAILED USER INFORMATION BE ACQUIRED ?
NO
YES
S1502
ACQUIRE DETAILED USER INFORMATION VIA NETWORK
S1503
REGISTER USER
S1504
SET INITIAL VALUE OF UPPER LIMIT
END

FIG. 16

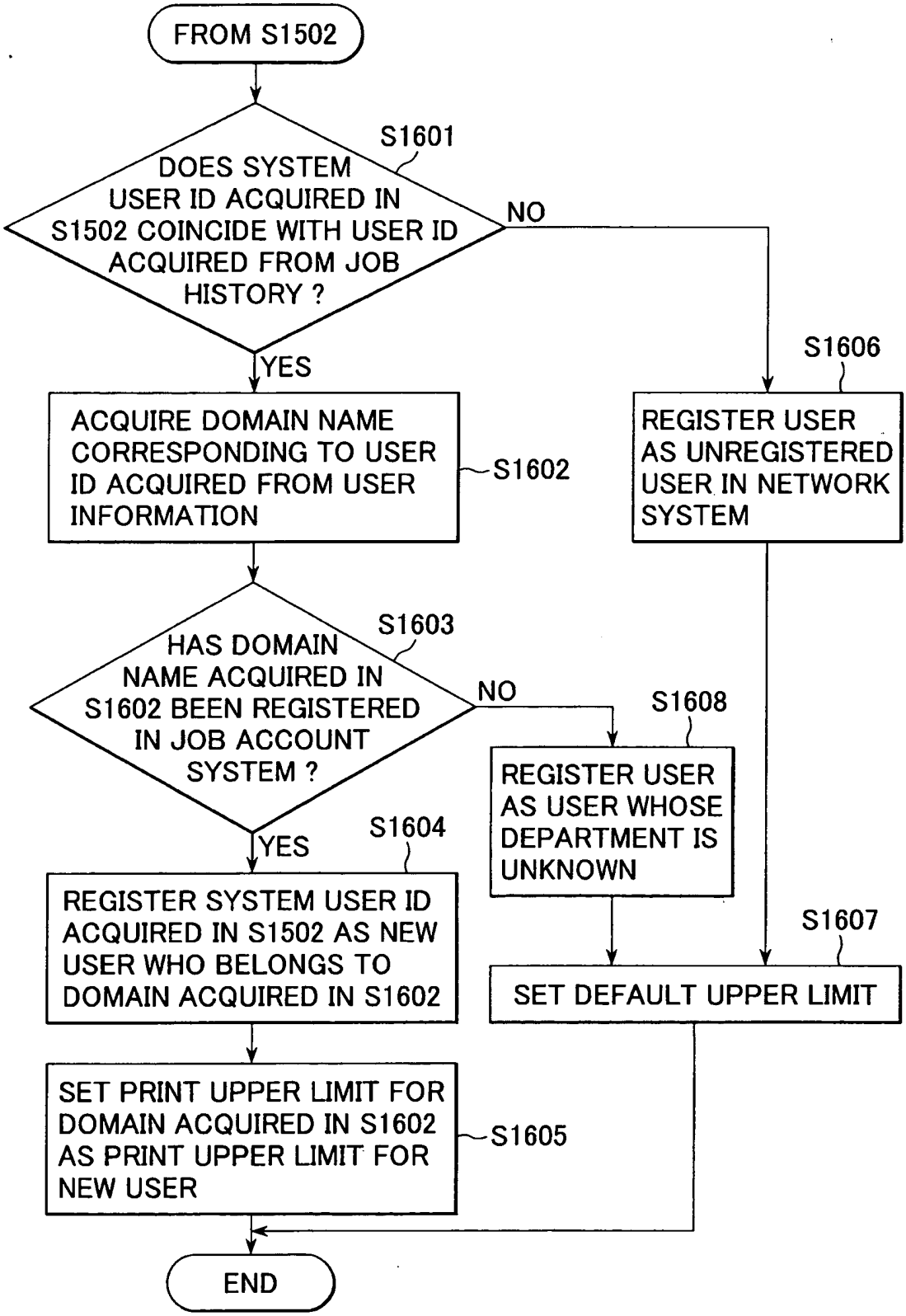

FROM S1502
S1601
DOES SYSTEM USER ID ACQUIRED IN S1502 COINCIDE WITH USER ID ACQUIRED FROM JOB HISTORY ?
NO
YES
S1606
REGISTER USER AS UNREGISTERED USER IN NETWORK SYSTEM
ACQUIRE DOMAIN NAME CORRESPONDING TO USER ID ACQUIRED FROM USER INFORMATION
S1602
S1603
HAS DOMAIN NAME ACQUIRED IN S1602 BEEN REGISTERED IN JOB ACCOUNT SYSTEM ?
NO
S1608
REGISTER USER AS USER WHOSE DEPARTMENT IS UNKNOWN
YES
S1604
REGISTER SYSTEM USER ID ACQUIRED IN S1502 AS NEW USER WHO BELONGS TO DOMAIN ACQUIRED IN S1602
S1607
SET DEFAULT UPPER LIMIT
SET PRINT UPPER LIMIT FOR DOMAIN ACQUIRED IN S1602 AS PRINT UPPER LIMIT FOR NEW USER
S1605
END

FIG. 17

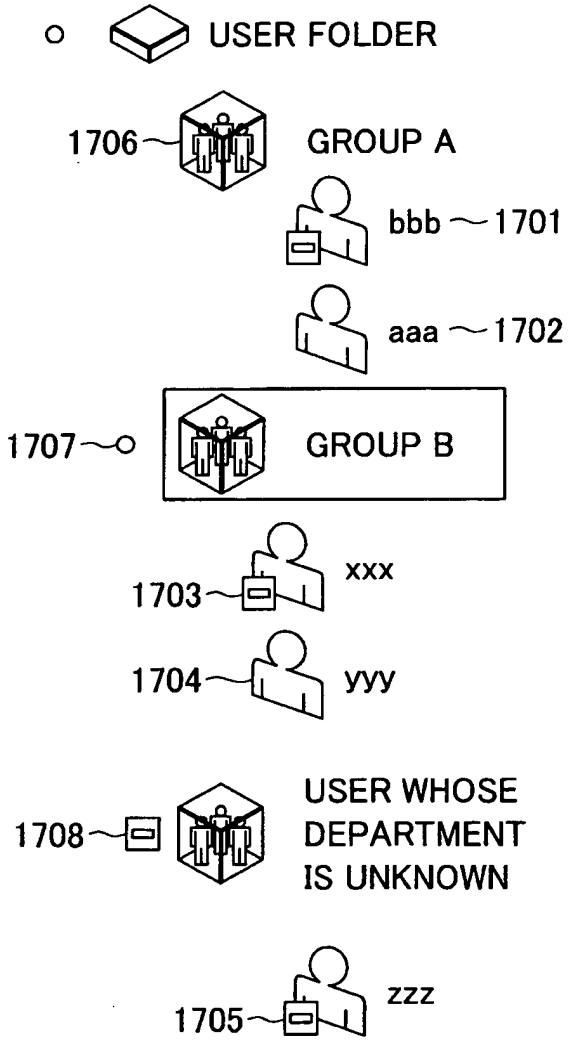
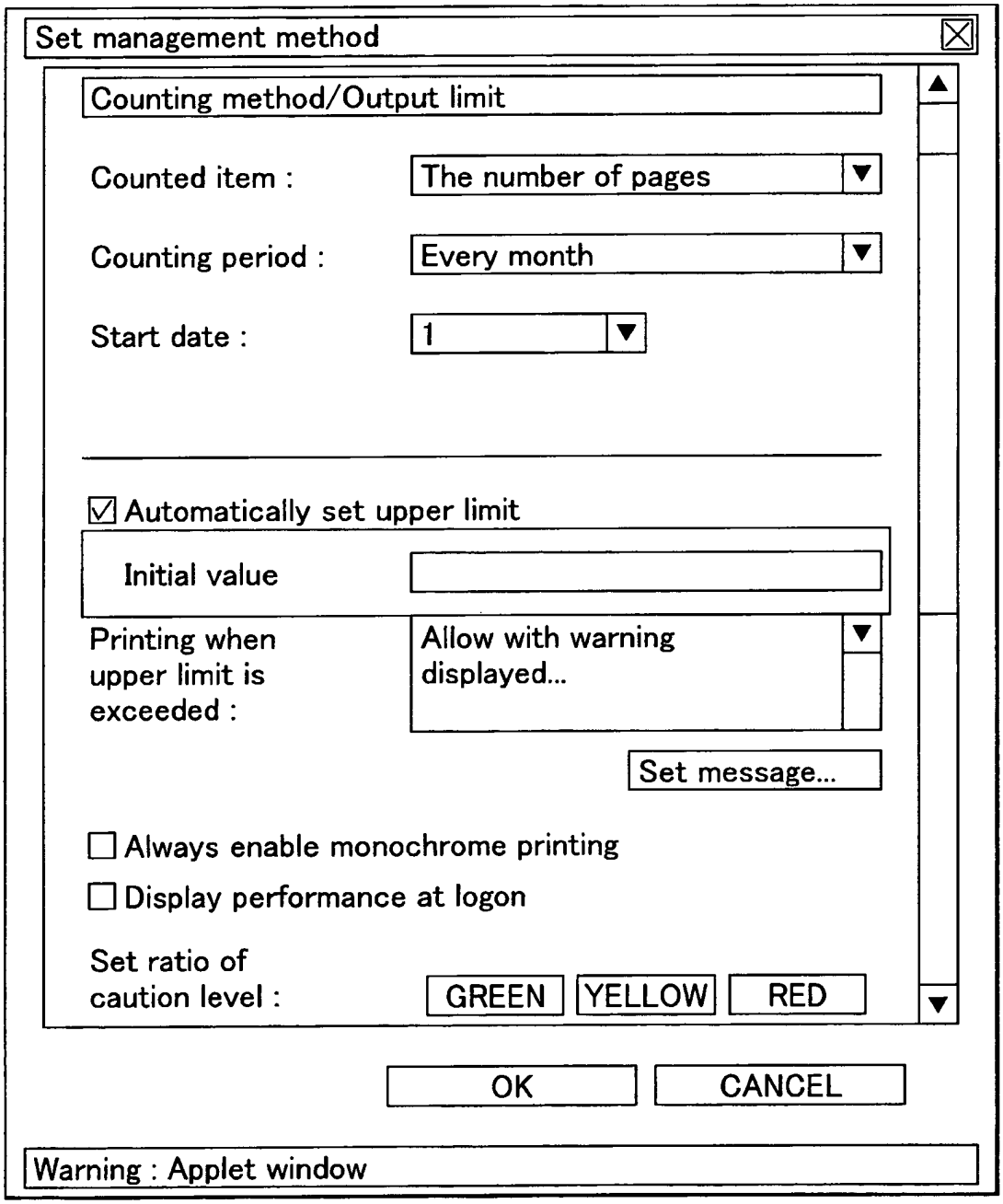

USER FOLDER
1706
GROUP A
bbb
1701
aaa
1702
1707
GROUP B
1703
xxx
1704
yyy
1708
USER WHOSE DEPARTMENT IS UNKNOWN
1705
zzz

FIG. 18


Set management method
Counting method/Output limit
Counted item :
The number of pages
Counting period :
Every month
Start date :
1
Automatically set upper limit
Initial value
Printing when upper limit is exceeded :
Allow with warning displayed...
Set message...
Always enable monochrome printing
Display performance at logon
Set ratio of caution level :
GREEN
YELLOW
RED
OK
CANCEL
Warning : Applet window